

Appl. No. 10/563,904
Reply to Office Action of April 22, 2008

Amendments to the Drawings:

The attached sheets of drawings includes changes as follows:

Fig. 1 and Fig 2: "PRIOR ART" label added.

Figs. 4 - 13: Element numbers are added. There were no element numbers in the original Figs.

Fig. 14: The word labels are replaced by numbers. There were no element numbers in the original Fig. 14.

Attachment: Replacement Sheets

REMARKS/ARGUMENTS

Regarding paragraph 4 in the Official Action

The Examiner rejected drawings for lack of reference numerals. Also Figs. 1 and 2 require a "PRIOR ART" label.

Replacement drawings are filed along with corresponding amendments to the specification, to avoid the Examiner's rejections.

Regarding paragraphs 3 and 5 in the Official Action

The Examiner objects to the term "gausses." Enclosed are pages from a dictionary as evidence that the changes are not necessary. In particular, as can be seen in the entry for gauss (near top of second column) the plural is gauss or gaussses. Withdrawal of the objections is therefore requested.

Regarding paragraph 6 in the Official Action

To avoid the 112 rejections in connection with Claims 12 and 27, the above amendment replaces the phrase "+/-10% -- wherein N is a natural number" with " $\pm 10\%$ of $1/N$ of a wavelength at which molecules undergo resonance reaction,

wherein N is a natural number".

To avoid the 112 rejections in connection with Claims 13 and 28, the above amendment replaces the phrase "where the members are in contact with the medium flow path" with "where the members are in the region of the medium flow path, around a pipe in which the cooling medium flows".

To avoid the 112 rejections in connection with Claim 25, the above amendment deletes the phrase "in relation to the medium flow path are provided".

Claim 30 is canceled, rendering its rejection moot.

ART REJECTIONS

In paragraphs 14 and 15 the Examiner states allowable subject matter, referring to the subject matter of Claims 12, 14, 27 and 29. In view thereof, all independent claims now in this application are amended to include allowable subject matter by incorporating the subject matter of either of Claims 12 and 14 which are allowed in the Official Action, as follows: (1) 1st group (Claims 10, 13-16, 31-



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35)

Claim 10 --- motor + Claim 12

(2) 2nd group (Claims 25, 28-30, 36-40)

Claim 25 --- medium flow path + Claim 12

(3) 3rd group (Claims 41-50)

Claim 41 --- motor + Claim 14

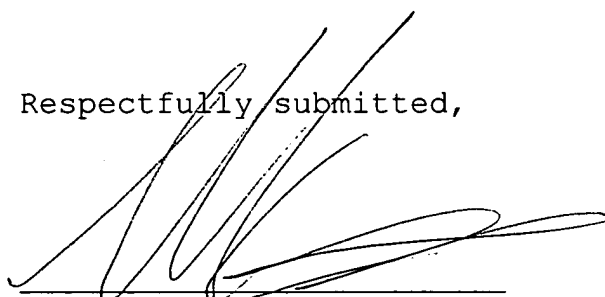
(4) 4th group (Claims 51-59)

Claim 51 --- medium flow path + Claim 14

In view of the above, the rejections are avoided by
introducing allowable subject matter into the independent claims.
Allowance of the application is therefore respectfully requested.

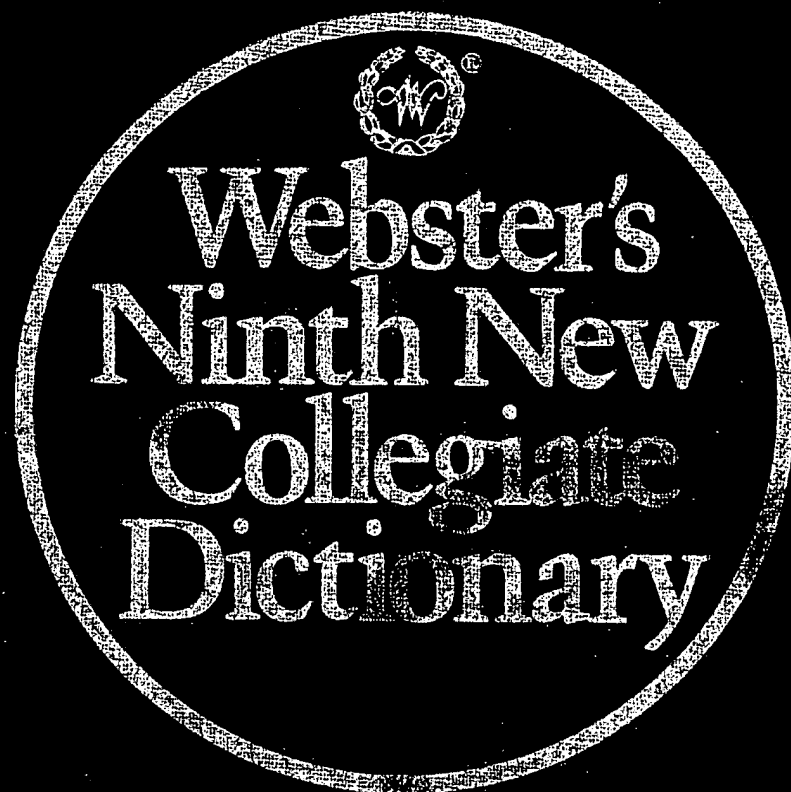
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Respectfully submitted,



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Encs. Petition for One Month Extension of Time
Form PTO-2038 - \$60 (small entity)
7 Replacement Sheets
Additional claim fee - \$160 (small entity)
Assertion of Small Entity Status
Webster's Ninth New Collegiate Dictionary page 508



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gatefold \-föld\ *n* (1946) : FOLDOUT; *esp* : one with a single fold that opens out like a gate
gate-keeper \-kē-pər\ *n* (1572) 1 : one that tends or guards a gate 2 : SUPERVISOR, MONITOR — gate-keeping \-piŋ\ *adj*
gate-leg table \-gāt-lēg-, -lāg-\ *n* (1926) : a table with drop leaves supported by movable paired legs
gate-post \-gāt-pōst\ *n* (1522) : the post to which a gate is hung or the one against which it closes
gate-way \-wā\ *n* (1707) 1 : an opening for a gate 2 : GATE 4a
gather \-gath-ər-, -gēth-\ *vb* gathered; gather-ing \-(ə-)rɪŋ\ [ME *gaderen*, fr. OE *gaderian*; akin to Skt *gadh* to hold fast — more at GOOD] *vi* (bef. 12c) 1 : to bring together : COLLECT 2 a : PICK, HARVEST b : to pick up little by little c : to accumulate and place in readiness (~ed his tools) d : to assemble (volume signatures) in sequence for binding 3 : to serve as a center of attraction for 4 : to effect the collection of (as tax) 5 a : to summon up (~ed his courage) b : to gain by gradual increase : ACCUMULATE (~ speed) c : to prepare (as oneself) by mustering strength 6 a : to bring together the parts of b : to draw about or close to something (~ing his cloak about him) c : to pull (fabric) along a line of stitching so as to draw into puckers d : to haul in 7 : to reach a conclusion often intuitively from hints or through inferences (I ~ that you want to leave) ~ *vi* 1 a : to come together in a body b : to cluster around a focus of attraction 2 a : to swell and fill with pus b : GROW, INCREASE — gather-er \-ər-ər\ *n* *syn* GATHER, COLLECT, ASSEMBLE, CONGREGATE mean to come or bring together into a group, mass, or unit. GATHER is the most general term for bringing or coming together from a spread-out or scattered state; COLLECT often implies careful selection or orderly arrangement; ASSEMBLE implies an ordered union or organization of persons or things often for a definite purpose; CONGREGATE implies a spontaneous flocking together into a crowd or huddle. *syn* see in addition INFER
gather *n* (1555) 1 : something gathered: as a : a puckering in cloth made by gathering b : a mass of molten glass collected for use in glassblowing 2 : an act or instance of gathering
gather-ing *n* (bef. 12c) 1 : ASSEMBLY, MEETING 2 : a suppurating swelling : ABSCESS 3 : the collecting of food and raw materials from the wild 4 : COLLECTION, COMPILATION 5 : a gather in cloth
Gatling gun \-gāt-lɪŋ-\ *n* [Richard J. Gatling 1903 Am. inventor] (1867) : an early machine gun with a crank-operated revolving cluster of barrels fired once each per revolution
ga-tor \-gāt-ər\ *n* (1844) : ALLIGATOR
gauche \-gōsh\ *adj* [F, lit., left] (1751) 1 : lacking social experience or grace : CRUDE 2 : not planar (~ conformation of molecules) *syn* see AWKWARD — gauche-ly *adv* — gauche-ness *n*
gau-cherie \-gōsh-(ə-)rē\ *n* (1798) : a tactless or awkward act
gau-cho \-gāu-(chō)-\ *n, pl* gauchos [AmerSp] (1824) : a cowboy of the So. American pampas
gaud \-gōd-, -gād\ *n* [ME *gaude*] (15c) : ORNAMENT, TRINKET
gaud-ery \-ə-rē\ *n* (1597) : showy ornamentation; *esp* : personal finery
gaud-ry \-gōd-ē-, -gād-*adj* gaud-ier-, -est (1583) : ostentatiously or tastelessly ornamented — gaud-ily \-gōd-ē-, -gād-*adv* — gaud-iness \-gōd-ē-nəs-, -gād-*n*
syn GAUDY, TAWDRY, GARISH, FLASHY, MERETRICKIOUS mean vulgarly or cheaply showy. GAUDY implies a tasteless use of overly bright, often clashing colors or excessive ornamentation (false eloquence, like the prismatic glass, its gaudy colors spreads on every place — Alexander Pope) TAWDRY applies to what is at once gaudy and cheap and sleazy (the woman ... big, bovine in a motley of cheap and tawdry clothes — William Styron) GARISH describes what is distressingly or offensively bright (hide me from day's garish eye — John Milton) FLASHY implies an effect of brilliance quickly and easily seen to be shallow or vulgar (two painted flashy women with fine legs — Graham Greene) MERETRICKIOUS stresses falsity and may describe a tawdry show that beckons with a false allure, or promise (soldiers ... circled displays of colored postcards, and picked up meretricious mementos — James Baldwin)
gaudy *n, pl* gaudies [prob. fr. L *gaudium* joy — more at JOY] (1651) : a feast or entertainment *esp*. in the form of an annual college dinner in a British university
gauf-fer \-gāf-ər-, -gōf-, -gōf-\ *var* of GOFFER
gauge \-gā\ *n* [ME *gaug*, fr. ONF] (15c) 1 a : measurement according to some standard or system b : DIMENSIONS, SIZE 2 *usu* gauge : an instrument for or a means of measuring or testing: as a : an instrument for measuring a dimension or for testing mechanical accuracy b : an instrument with a graduated scale or dial for measuring or indicating quantity 3 : relative position of a ship with reference to another ship and the wind 4 a : the distance between the rails of a railroad b : the distance between a pair of wheels on an axle 5 : the quantity of plaster of paris used with mortar to accelerate its setting 6 : the size of a shotgun barrel's interior diameter nominally expressed as the number of lead balls each just fitting the interior diameter of the barrel required to make a pound (a 12-gauge shotgun) 7 a : the thickness of a thin material (as sheet metal or plastic film) b : the diameter of a slender object (as wire, a hypodermic needle, or a screw) c : the fineness of a knitted fabric expressed by the number of loops per 1½ inch so that the higher the number the finer the texture *syn* see STANDARD
gauge *vi* gauged; gaug-ing (15c) 1 a : to measure the size, dimensions, or other measurable quantity of exactly b : to determine the capacity or contents of c : ESTIMATE, JUDGE (hard to ~ his moods) 2 a : to check for conformity to specifications or limits b : to measure off or set out 3 : to mix (plaster) in definite proportions 4 : to dress (as bricks) to size by rubbing or chipping — gauge-able \-gā-jə-bəl\ *adj* — gauge-ably \-bəl-*adv*
gauger \-gā-jər\ *n* (15c) 1 : one that gauges 2 chiefly Brit : an excise-man who inspects dutiable bulk goods
Gaul \-gōl\ *n* (1630) 1 : a Celt of ancient Gaul 2 : FRENCHMAN
Gaul-ish \-gō-lɪsh\ *adj* (1659) : of or relating to the Gauls or their language or land
Gaulish *n* (1668) : the Celtic language of the ancient Gauls — see INDO-EUROPEAN LANGUAGES table
Gaul-ism \-gō-lɪz-əm-, -gō-\ *n* [Charles de Gaulle] (1943) 1 : a French political movement during World War II led by Charles de Gaulle in opposition to the Vichy regime 2 : a postwar French political movement led by Charles de Gaulle — Gaul-list \-lɪst\ *adj* or *n*

gault \-gōlt\ *n* [prob. of Scand origin; akin to ON *gald* hard-p-snow] (1575) : a heavy thick clay soil
gaum \-gōm-, -gām\ *vi* [perh. alter. of *gum*] *dial* (1796) : SMUDGE, SP
gaunt \-gōnt-, -gānt\ *adj* [ME] (15c) 1 : excessively thin and often as a result of suffering 2 : BARREN, DESOLATE *syn* see LE
gaunt-ly *adv* — gaunt-ness *n*
gaunt-let \-gōnt-lət-, -gānt-\ *n* [ME, fr. MF *gantlet*, dim. of *gant* of Gmc origin; akin to MD *want* mitten, ON *vōitr* gloves] (15c) glove worn with medieval armor to protect the hand 2 : any of ous protective gloves used *esp*. in industry 3 : a challenge to combat 4 : a dress glove extending above the wrist — gaunt-letted \-lət-əd\ *adj*
gantlet *n* [by folk etymology fr. *gantlet*] (1661) 1 : a double f men facing each other and armed with clubs or other weapons which to strike at an individual who is made to run between them : CROSS FIRE; also : ORDEAL (ran the ~ of criticism and censure)
gaur \-gāu(ə)r\ *n* [Hindi, fr. Skt *gaurā*; akin to Skt *gāu* bull, cow — more at COW] (1806) : a large East Indian wild ox (*Bibos gaurus*) with a broad forehead and short thick conical horns
gauss \-gāus\ *n, pl* gauss also gauss-es [Karl F. Gauss] (1882) : the cgs unit of magnetic flux density that is equal to 1 × 10⁻⁴ tesla
Gaussian curve \-gāu-sē-ən-\ *n* [Karl F. Gauss] (1905) : NORMAL CURVE
Gaussian distribution *n* (1905) : NORMAL DISTRIBUTION
gauze \-goz\ *n* [MF *gaze*] (1561) 1 a : a thin often transparent fabric used chiefly for clothing or draperies b : a loosely woven cotton surgical dressing c : a firm woven fabric metal or plastic filaments 2 : HAZE, MIST — gauze-like \-lɪk-\ *adj*
gauz-ily \-gō-zə-lē\ *adv* — gauzy \-zē\ *adj*
ga-vage \-vāzh-, -gā-\ *n* [F, fr. *garer* to stuff, force-feed] (1889) : in-duction of material into the stomach by a tube
gave *past* of GIVE
gavel \-gav-əl\ *n* [ME, fr. OE *gafol*; akin to OE *giefan* to give] (12c) : rent or tribute in medieval England
gavel [origin unknown] (ca. 1860) : a mallet used (as by a presid officer or auctioneer) for commanding attention or confirming an action (as a vote or sale)
gavel *vi* -eled or -elled; -eling or -elling \-gav-(ə-)lɪŋ\ (1925) : to br or force by use of a gavel (~ed the audience to silence) (~ed throu an adjournment motion)
gavel-kind \-gav-əl-kind\ *n* [ME *gavelkynde*, fr. *gavel* + *kinde* kin] (15c) : a tenure of land existing chiefly in Kent from Anglo-Sax times until 1925 and providing for division of an intestate's est equally among the sons or other heirs
gavel-to-gavel *adj* (1968) : extending from the beginning to the end o meeting or session (~ television coverage)
ga-vial \-gā-vē-əl\ *n* [F, modif. of Hindi or Nepali *ghariyāl*, fr. or al to Skt *ghāṭika* alligator, perh. fr. *ghaṭa* throat] (ca. 1825) : a lar harmless crocodilian (*Gavialis gangeticus*) of India
ga-votte \-gā-vōt\ *n* [F, fr. MF, fr. OFProv *gavata*, fr. *gawot* Alpi dweller] (1696) 1 : a dance of French peasant origin marked by raising rather than sliding of the feet 2 : a tune for the gavotte, moderately quick ¾ time — gavotte *vi*
Gā-wain \-gā-wān-, -gā-wān-, -gāw-ən\ *n* : a knight of the Round Tab and nephew of King Arthur
gawk \-gōk\ *n* [prob. fr. E *dial*. *gawk* (left-handed)] (1757) : a clum stupid person : LOU
gawk *vi* [perh. alter. of obs. *gaw* (to stare)] (1785) : to gape or sta stupidly — gawk-er *n*
gawk-ish \-gō-kɪsh\ *adj* (1876) : GAWKY — gawk-ish-ly *adv* — gawk-isi-ness *n*
gawky \-gō-kē\ *adj* gawk-ier-, -est (1759) : AWKWARD, CLUMSY (a child with long arms and legs) — gawk-ily \-kē-lē\ *adv* — gawky *n*
gay \-gā\ *adj* [ME, fr. MF *gai*] (14c) 1 a : happily excited : MERRY : keenly alive and exuberant : having or inducing high spirits (h turned from a sober traditional style to one more timely and ~) 2 : BRIGHT, LIVELY (~ sunny meadows) b : brilliant in color 3 : give to social pleasures; also : LICENTIOUS 4 a : HOMOSEXUAL b : of relat-ing to, or used by homosexuals (~ liberation) (a ~ bar) *syn* see LIVELY — gay *adv* — gay-ness *n*
gay *n* (1953) : HOMOSEXUAL
gay-ety, gayly *var* of GAITY, GAILY
gaze \-gāz\ *vi* gazed; gaz-ing [ME *gazen*] (14c) : to fix the eyes in steady and intent look and often with eagerness or studious attention — gaz-er *n*
syn GAZE, GAZE, STARE, GLARE, PEER mean to look (at) long and atten-tively. GAZE implies fixed and prolonged attention (as in wonder, ad-miration, or abstractedness); GAZE suggests an openmouthed often stupid wonder; STARE implies a direct open-eyed gazing denoting curi-osity, disbelief, or insolence; GLARE is a fierce or angry staring; PEER suggests a looking narrowly and curiously as if through a small open-ing.
gaze *n* (1566) : a fixed intent look
ga-zo-bo \-gā-zə-(bō)-, -zē-\ *n, pl* -bos [perh. fr. *gaze* + L *ebo* (as in *videbo* I shall see)] (1752) 1 : BELVEDERE 2 : a freestanding roofed structure usu. open on the sides
gaze-hound \-gāz-, -haund\ *n* (1570) : a dog that hunts by sight rather than by scent; *esp* : GREYHOUND
ga-zelle \-gā-zel\ *n* *pl* gazelles also gazelle [F, fr. MF, fr. Ar *ghazāl*] (1600) : any of numerous small, graceful, and swift African and Asian antelopes (*Gazella* and related genera) noted for their soft lustrous eyes
ga-zette \-gā-zet\ *n* [F, fr. It *gazetta*] (1605) 1 : NEWSPAPER 2 : an official journal 3 Brit : an announcement in an official gazette
gazette *vi* gazetted; gazet-ting (1678) 1 chiefly Brit : to announce or publish in a gazette 2 Brit : to announce the appointment or status of in an official gazette
gazet-ter \-gāz-ə-(tɪ)s(r)\ *n* (1611) 1 archaic : JOURNALIST, PUBLICIST 2 [The Gazetteer's; or, Newsman's Interpreter, a geographical index edited

